SILICONE INSULATED AND POLYURETHANE SHEATHED MEDIUM VOLTAGE POWER CABLES

SILICOUL® ST PUR 6.6 kV

-40°C to +150°C

1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
2 • Semi-conductor tape(s).
3 • Insulation: Silicone rubber.
4 • Sheath: Polyurethane thermoplastic elastomer.

Approvals - standards

• Compliance with the standard: IEC 60228.

Applications

• All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
• Cabling for rotating machines: motors, alternators, generators.
• Cabling for static machines: transformers, inductors, inverters, choppers.
• Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

Options

• Extra-flexible tin-plated copper core – class 6 as per IEC 60228: contact us.
• Flexible or extra-flexible bare copper, silver-plated or nickel-plated copper core – class 5 or 6 as per IEC 60228: contact us.
• Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® ST PUR 6.6 kV: contact us.
• Other markings: contact us.
• Other colours: contact us.
• Other nominal cross-sections: contact us.
• Other options and/or combinations of the options outlined above: contact us.

Characteristics

General

• Continuous operating temperature: -40°C to +150°C.
• Excellent resistance to oil and hydrocarbons.
• Good resistance to humidity.
• Excellent mechanical strength.

Electrical

• Rated voltage: 6.6 kV.
• Test voltage: 15 kV.

Standard products

• Standard insulation colour: white.
• Standard sheath colour: grey.
• Standard marking: OMERIN – SILICOUL ST PUR 6.6 KV – {cross-section/mm²}

SILICOUL® ST PUR 6.6 kV

Flexible core • class 5 as per IEC 60228			INSULATED WIRE OR CABLE	
Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2.5	50 x 0.25	8.21	8.5	84
4	56 x 0.30	5.09	9.1	105
6	84 x 0.30	3.39	10.2	139
10	80 x 0.40	1.95	11.6	192
16	126 x 0.40	1.24	13.2	266
25	196 x 0.40	0.795	14.7	370
35	276 x 0.40	0.565	16.4	479
50	396 x 0.40	0.393	18.5	652
70	360 x 0.50	0.277	20.3	855
95	485 x 0.50	0.210	21.8	1080
120	608 x 0.50	0.164	24.4	1345
150	756 x 0.50	0.132	25.8	1679
185	944 x 0.50	0.108	28.5	1995
240	1221 x 0.50	0.0817	32.5	2638
300	1525 x 0.50	0.0654	34.9	3204
400	2037 x 0.50	0.0495	39.4	4138

For this product, please contact:

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LES CABLES DE L'EXTREME

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The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In some cases, for production purposes, a separating tape may be added between two successive layers. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force. For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories. ® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.